ABSTRACT

EFFECTIVE OF ANALYZE PERSPIRATORY TRACE CLOTHES AS MATERIAL ALTERNATIVE FOR FORENSIC IDENTIFICATION IN DNA PROFILING EXAMINATION .

H.Agus Moch.Algozi[1], HM.Soekry ErfanKusuma[1],
Ahmad Yudianto[1], Eriko Prawestiningtyas[2]
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Staf Pengajar Ilmu Kedokteran Forensik & Medikolegal FK Unair [1]
Peserta Program Pendidikan Dokter Spesialis (PPDS I) Ilmu Kedokteran Foresik & Medikolegal FK Unair[2]

Identity Forensic with DNA profiling have recognized as a sophisticate tool to help investigator and public prosecutor in criminal cases or civil cases. And this prove have great benefit in forensic identification.

Until now, in Indonesia, personal identification through perspiratory traces of clothes by method of DNA analysis (DNA Profiling) is yet done. Research about perspiratory traces of clothes through to DNA analysis for substance of forensic identification have been done. This research use locus that is : THO1. From 15 sample are rate average of DNA samples 11,75 - 40,43 µg/ml and purity of DNA 1,3 - 1,9. Theoretically, the quantity of DNA as mentioned above can still be used in the DNA profiling process, requiring DNA level at approximately 20 ng/µl for typing purpose (Notosoehardjo, 1999b; Gatut et al, 2004). In addition, the ideal purity of 1,8 – 2 for dsDNA is important

That 15 samples on visualization electrophorese is band if consider between perspiratory traces (A) and blood (B) sample is identic/matching.

In conclusion, perspiratory traces of clothes can be as an alternative of forensic identification through the molecular forensic research

Key word : perspiratory traces of clothes, THO1locus, forensic identification